

01-02-01

A

Please type a plus sign (+) inside this box ☒

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. **IKK-12**
First Inventor **Igor K. Kotliar**
Title **Hypoxic Fire Prevention and Fire Suppression Systems...**
Express Mail Label No. **EK504861494US**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **50**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **20**]
5. Oath or Declaration [Total Pages **1**]
 - a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: **09, 551,026**
Prior application information: Examiner **Ronald Caposella** Group Art Unit: **3744**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach bar code label here)				or <input checked="" type="checkbox"/> Correspondence address below
Name	Igor K. Kotliar				
Address	P.O. Box 2021				
City	New York	State	NY	Zip Code	10159-2021
Country	US	Telephone	212-683-6998	Fax	212-213-3247

Name (Print/Type)	Registration No. (Attorney/Agent)	
Signature	Date	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

U.S. PTO
09/750801
12/28/00

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete if Known

Application Number
Filing Date 12/28/2000
First Named Inventor IGOR K. KOTLIAR
Examiner Name Ronald Caposse
Group Art Unit 3744
Attorney Docket No. 1KK-12

TOTAL AMOUNT OF PAYMENT

(\$ 627.00

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number
Deposit Account Name

- ☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	355
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$ 355.

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
28	-20** = 8	9	72
8	-3** = 5	40	200
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 272

*or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 60	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
116 110	215 55	Extension for reply within first month	
116 390	218 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 160	126 160	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 627.00

SUBMITTED BY

Name (Print/Type)

Signature

Registration No.
(Attorney/Agent)

Complete (if applicable)

Telephone

Date

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete If Known

Application Number	
Filing Date	12/28/2000
First Named Inventor	IGOR K. KOTLIAR
Examiner Name	Ronald Caposella
Group Art Unit	3744
Attorney Docket No.	1KK-12

TOTAL AMOUNT OF PAYMENT (\$)**627.00**

METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																																																									
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number <input type="text"/></p> <p>Deposit Account Name <input type="text"/></p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> <p>2. <input type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>		<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>105 130</td> <td>205 65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>127 50</td> <td>227 25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>139 130</td> <td>139 130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147 2,520</td> <td>147 2,520</td> <td>For filing a request for <i>ex parte</i> reexamination</td> <td></td> </tr> <tr> <td>112 920*</td> <td>112 920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>113 1,840*</td> <td>113 1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>115 110</td> <td>215 55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>116 390</td> <td>216 195</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>117 890</td> <td>217 445</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>118 1,390</td> <td>218 695</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>128 1,890</td> <td>228 945</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>119 310</td> <td>219 155</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>120 310</td> <td>220 155</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121 270</td> <td>221 135</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>138 1,510</td> <td>138 1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>140 110</td> <td>240 55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>141 1,240</td> <td>241 620</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>142 1,240</td> <td>242 620</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>143 440</td> <td>243 220</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>144 600</td> <td>244 300</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>122 130</td> <td>122 130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123 50</td> <td>123 50</td> <td>Processing fee under 37 CFR 1.17(a)</td> <td></td> </tr> <tr> <td>126 180</td> <td>126 180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>581 40</td> <td>581 40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>146 710</td> <td>246 355</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>149 710</td> <td>249 355</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td>179 710</td> <td>279 355</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>169 900</td> <td>169 900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> <tr> <td colspan="2">Other fee (specify) _____</td> <td></td> <td></td> </tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105 130	205 65	Surcharge - late filing fee or oath		127 50	227 25	Surcharge - late provisional filing fee or cover sheet		139 130	139 130	Non-English specification		147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination		112 920*	112 920*	Requesting publication of SIR prior to Examiner action		113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action		115 110	215 55	Extension for reply within first month		116 390	216 195	Extension for reply within second month		117 890	217 445	Extension for reply within third month		118 1,390	218 695	Extension for reply within fourth month		128 1,890	228 945	Extension for reply within fifth month		119 310	219 155	Notice of Appeal		120 310	220 155	Filing a brief in support of an appeal		121 270	221 135	Request for oral hearing		138 1,510	138 1,510	Petition to institute a public use proceeding		140 110	240 55	Petition to revive - unavoidable		141 1,240	241 620	Petition to revive - unintentional		142 1,240	242 620	Utility issue fee (or reissue)		143 440	243 220	Design issue fee		144 600	244 300	Plant issue fee		122 130	122 130	Petitions to the Commissioner		123 50	123 50	Processing fee under 37 CFR 1.17(a)		126 180	126 180	Submission of Information Disclosure Stmt		581 40	581 40	Recording each patent assignment per property (times number of properties)		146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))		149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))		179 710	279 355	Request for Continued Examination (RCE)		169 900	169 900	Request for expedited examination of a design application		Other fee (specify) _____			
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																								
105 130	205 65	Surcharge - late filing fee or oath																																																																																																																									
127 50	227 25	Surcharge - late provisional filing fee or cover sheet																																																																																																																									
139 130	139 130	Non-English specification																																																																																																																									
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																									
112 920*	112 920*	Requesting publication of SIR prior to Examiner action																																																																																																																									
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action																																																																																																																									
115 110	215 55	Extension for reply within first month																																																																																																																									
116 390	216 195	Extension for reply within second month																																																																																																																									
117 890	217 445	Extension for reply within third month																																																																																																																									
118 1,390	218 695	Extension for reply within fourth month																																																																																																																									
128 1,890	228 945	Extension for reply within fifth month																																																																																																																									
119 310	219 155	Notice of Appeal																																																																																																																									
120 310	220 155	Filing a brief in support of an appeal																																																																																																																									
121 270	221 135	Request for oral hearing																																																																																																																									
138 1,510	138 1,510	Petition to institute a public use proceeding																																																																																																																									
140 110	240 55	Petition to revive - unavoidable																																																																																																																									
141 1,240	241 620	Petition to revive - unintentional																																																																																																																									
142 1,240	242 620	Utility issue fee (or reissue)																																																																																																																									
143 440	243 220	Design issue fee																																																																																																																									
144 600	244 300	Plant issue fee																																																																																																																									
122 130	122 130	Petitions to the Commissioner																																																																																																																									
123 50	123 50	Processing fee under 37 CFR 1.17(a)																																																																																																																									
126 180	126 180	Submission of Information Disclosure Stmt																																																																																																																									
581 40	581 40	Recording each patent assignment per property (times number of properties)																																																																																																																									
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																									
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																									
179 710	279 355	Request for Continued Examination (RCE)																																																																																																																									
169 900	169 900	Request for expedited examination of a design application																																																																																																																									
Other fee (specify) _____																																																																																																																											
<p>1. BASIC FILING FEE</p> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101 710</td> <td>201 355</td> <td>Utility filing fee</td> <td>355</td> </tr> <tr> <td>106 320</td> <td>206 160</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107 490</td> <td>207 245</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108 710</td> <td>208 355</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114 150</td> <td>214 75</td> <td>Provisional filing fee</td> <td></td> </tr> </tbody> </table> <p>SUBTOTAL (1) (\$)355.</p>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	101 710	201 355	Utility filing fee	355	106 320	206 160	Design filing fee		107 490	207 245	Plant filing fee		108 710	208 355	Reissue filing fee		114 150	214 75	Provisional filing fee		<p>2. EXTRA CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>28</td> <td>-20** = 8</td> <td>9</td> <td>72</td> </tr> <tr> <td>8</td> <td>-3** = 5</td> <td>40</td> <td>200</td> </tr> <tr> <td colspan="4">Multiple Dependent</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>103 18</td> <td>203 9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102 80</td> <td>202 40</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104 270</td> <td>204 135</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>109 80</td> <td>209 40</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110 18</td> <td>210 9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> </tbody> </table> <p>SUBTOTAL (2) (\$)272</p>		Total Claims	Extra Claims	Fee from below	Fee Paid	28	-20** = 8	9	72	8	-3** = 5	40	200	Multiple Dependent				Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103 18	203 9	Claims in excess of 20		102 80	202 40	Independent claims in excess of 3		104 270	204 135	Multiple dependent claim, if not paid		109 80	209 40	** Reissue independent claims over original patent		110 18	210 9	** Reissue claims in excess of 20 and over original patent																																																									
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																								
101 710	201 355	Utility filing fee	355																																																																																																																								
106 320	206 160	Design filing fee																																																																																																																									
107 490	207 245	Plant filing fee																																																																																																																									
108 710	208 355	Reissue filing fee																																																																																																																									
114 150	214 75	Provisional filing fee																																																																																																																									
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																								
28	-20** = 8	9	72																																																																																																																								
8	-3** = 5	40	200																																																																																																																								
Multiple Dependent																																																																																																																											
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																								
103 18	203 9	Claims in excess of 20																																																																																																																									
102 80	202 40	Independent claims in excess of 3																																																																																																																									
104 270	204 135	Multiple dependent claim, if not paid																																																																																																																									
109 80	209 40	** Reissue independent claims over original patent																																																																																																																									
110 18	210 9	** Reissue claims in excess of 20 and over original patent																																																																																																																									
<p>*for number previously paid, if greater; For Reissues, see above</p>		<p>*Reduced by Basic Filing Fee Paid</p> <p>SUBTOTAL (3) (\$)627.00</p>																																																																																																																									

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Registration No. (Attorney/Agent)	Telephone	
Signature		Date	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.